



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO040616	MES002-VC	2		1 Net 30	M6061T6S.063	6061-T6 .063 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf				96	8/10/2018	96		S101049	Stock	8/9/2018	\$ 9.20 / sf	11		\$883.35	Metaux Solutions
						5052-H32 .032 Sheet : MATERIAL: 5052-H32 ALUMINUM SHEET AS PER QQ-A-250/8 OR AMS-QQ-A- 250/8 OR AMS 4016 OR ASTM B209 receive sf				64		64		S101050	Stock	8/9/2018	\$ 4.45 / sf	11		\$284.60	Metaux Solutions
		4			MT-4140-B-0.500X0.500	4140 Steel Bar 0.500 X 0.500 : AISI 4140 STEEL BAR PER ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S- 5626 MINIMUM ROCKWELL C = 28 RC MAXIMUM ROCKWELL C = 32 RC receive ft				10		5		S101051	Stock	8/9/2018	\$ 7.50 / ft	11		\$37.50	Metaux Solutions
		5			MT-4140-S-1.500X4.000	4140 Steel Sheet 1.500 X 4.000 : MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE MINIMUM ROCKWELL C = 28 Rc MAXIMUM/ ROCKWELL C = 32 Rc ASTM A829, AMS 6395				6		6		S101052	Stock	8/9/2018	\$ 64.77 / ft	11		\$388.60	Metaux Solutions

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
		6			MT-A500-TS-0.750W.065	A500 Square Tubing 0.750" x.065" wall : MATERIAL: ASTM A500 STEEL SQUARE TUBING SPECIFICATION: ASTM A500 OR ASTM A513 MT-A500-TS-[A.AAA]W[T.TTT] receive ft				20	8/20/2018	20		S103410	Stock	8/10/2018	\$ 1.80 / ft	10		\$36.00	Metaux Solutions
Total:												196								\$1,246.67	

Plex 8/20/2018 8:55 AM dart.Tollis.Andrew

Shipping Order

06/08/2018

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
Tel.: 450 641-3330

Order : 137136
Reference : 40616
Ship : PICK UP / PICK UP

Customer: 6323336

Ship To

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Deliver	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
AS04061	ALU SHE .040 6061-T6 (18G) 3 X 4' X 12' ***** HT;	144	<u>Ø</u>	<u>144</u>
AS063614'X8'	ALU SHE .063" X 4' X 8' 6061-T6 3 PCES ***** HT:61011/01/00 AT	3	<u>3</u>	<u>Ø</u>
AS03252	ALU SHEE .032 X 4' X 8 5052H32 2 PCES***** HT:G-18020681 AT	2	<u>2</u>	<u>Ø</u>
MSQ1241CD	4140 SQU .500 CD 2 X 5' HT:4585-A AT	10	<u>5</u> only received	<u>Ø</u>
MP11241H	4140 HTSR PLATE 1.5" THICK 1 X 4" X 72" HT:95008 AT	134	<u>134</u>	<u>4</u>
CREW3434065	CREW TUB>.750 X .750 X .065 1 X 20' HT:615973 AT	20	<u>20</u>	<u>Ø</u>
	SHIP JOURNEY COLLECT JP			

Shipping : _____
Package No : _____

Ref. : _____

Merchandise Received: _____



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO040616

Supplier: MES002-VC
Metaux Solutions
2625 boul Jacques-Cartier Est
Longueuil
QC
J4N 1L7 Canada
Phone: 800 558 8858
Fax: 514 633 8044

PO No: PO040616
PO Date: 7/26/18
Due Date: 8/13/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

REVISED

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1		M6061T6S.040		6061-T6 .040 Sheet : MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027 OR ASTM B209 receive sf	Firmed	-	8/30/18	144 sf	0 sf	144 sf	\$4.6010416/sf	\$662.55
4		MT-4140-B-0.500x0.500		4140 Steel Bar 0.500 X 0.500 : AISI 4140 STEEL BAR PER ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626 MINIMUM ROCKWELL C = 28 RC MAXIMUM ROCKWELL C = 32 RC receive ft	Partial	-	8/10/18	10 ft	5 ft	5 ft	\$7.50/ft	\$37.50

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
6 A1		MT-A500-TS-0.750W.065		A500 Square Tubing 0.750" x.065" wall : MATERIAL: ASTM A500 STEEL SQUARE TUBING SPECIFICATION: ASTM A500 OR ASTM A513 MT-A500-TS-[A.AAA]W[T.TTT] receive ft	Firmed	-	8/17/18	20 ft	0 ft	20 ft	\$1.80/ft	\$36.00
Grand Total:												\$736.05

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 8/17/18 11:28 AM dart.lavoie.chantal



WELDED TUBE OF CANADA CORP.

111 RAYETTE ROAD
CONCORD, ONTARIO L4K 2E9
FAX: (905) 738-4070
TEL: (905) 669-1111
TOLL FREE: 1-800-565-TUBE (8823)

TEST REPORT

REPORT # 21300

NUMBER/ROLLING : 21300

DATE/TIME OF TEST : 1/23/10

PAGE: 1

Metax Solutions

PO 040616

CREW TUB

REF P.O. WTC BOLA SHIP DATE WTC ITEM#
DESCRIPTION

HT: 615973

3295 572011 1/23/10 929301

*ASIN 8132 AWB, ERW, 130-130-100-250, 800
ER WELDED STEEL TUBE*

CHEMICAL COMPOSITION

TYPE	C	MM	P	S	SI	CU	NI	CR	MO	CO	N	B	AL	GB	CL
HEAT	.035	.197	.010	.005	.024	.000	.004	.017	.002	.004	.001	.000	.020	.000	.000
HEAT	.041	.170	.010	.012	.017	.000	.005	.017	.002	.003	.002	.000	.040	.000	.000

1 + FURN/031/24+CU/15+NI/20+CR+MO+GB/CL/CL

TV OF ORIGIN CANADA
NOT CONTAIN MERCURY, CADMIUM OR LEAD.

For inquiries to: vw@weldedtube.com

WTC certifies that the product was manufactured, sampled, tested and inspected in accordance with the
edition of the specification at time of manufacture and any other requirements designated on
purchase order or contract. The tests were found to meet all such requirements.
Inspection certificate is in accordance with EN 10204 3.1.

WTC certifies que le produit a été fabriqué, échantillonné, testé et inspecté
conformément à la dernière édition de la spécification au moment de la fabrication et de toutes les autres
conditions désignées sur le bon de commande ou contrat. Les essais rencontrés, et l'inspection toutes ces
conditions.

Certificat d'inspection a été établi en conformité avec la norme EN 10204 3.1.

ref: 40616

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: ASTM A500 STEEL SQUARE TUBING

SPECIFICATION:

ASTM A500 OR ASTM A513

PART NUMBER:

MT-A500-TS-[A.AAA]WT.TTT

WHERE A.AAA IS WIDTH IN INCHES

WHERE T.TTT IS WALL THICKNESS IN INCHES

EG. 5/8" SQUARE TUBING WITH .065" WALL THICKNESS = MT-A500-TS-0.625W0.065

TOLERANCES PER MANUFACTURER SPECIFICATIONS

REV.	DESCRIPTION	DATE	BY	APPROVED
A	NEW ISSUE	17.09.06	VM	WM

DART AEROSPACE		HAWAIIAN, OREGON, CHINA	
TITLE: ASTM A500 STEEL SQUARE TUBING			
REV. NO.:		REV. A	
DESIGN BY:	VM 9/2/2017	XXX 3/205	FRACTIONS = 1/8
DRAWN BY:	SAC 03/07/2017	XX 1/51	ANGLES = 5°
CHECKED:	VM 03/09/2017	1/10	ALL DIMENSIONS ARE IN INCHES
MTG. APPR.:	DP 09/11/2017	2	UNLESS OTHERWISE SPECIFIED
QA APPR.:	DP 09/12/2017	3	ASTM A500-01 TOL. FOR
APPROVED:	VM 09/12/2017	4	ASTM A500-01 TOL. FOR
DATE:	9/7/2017	5	SCALE: NTS WEIGHT N/A
SHEET 1 OF 1			
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CA 17-049

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-A500-TS-0.750w.065

PO / BATCH NO.: P0040616/S103410

DATE: 18/08/20

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.750"

QUANTITY RECEIVED: 20'

THICKNESS RECEIVED: 0.750"

QUANTITY INSPECTED: 20'

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A513
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	MT: 615973
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.
RECORD RESULTS BELOW

	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION

ENGINEERING SIGNOFF (if required)

INSPECTED BY: AT

SIGNED OFF BY: _____

DATE: 18/08/20

DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 85150377

01 / 4

Rev.: 0

Seite / page:

1 von / of 2

Datum / date:

2015 11 10

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Auftraggeber / customer: Métaux Solutions inc. 2625, Boul. Jacques Cartier Est Longueuil, Qc. J4N 1L7	Bestell Nr. / order no.: C 70532
Warenempfänger / consignee: Métaux Solutions inc. 2625, Boul. Jacques Cartier Est Longueuil, Qc. J4N 1L7	Datum / date: 2015 05 20
	Auftragsbest. Nr. / order confirm no.: 693391
	Datum / date: 2015 05 21
	Lieferschein Nr. / delivery note: 85150377
	Datum / date: 2015 11 30

Produkt / product:	Bedingungen / terms:
Form / form: Sheet	Technische Lieferbedingungen / techn. spec.:
Werkstoff / material: 6061	AMS-QQ-A-250/11, 08.1997
Zustand / temper: T6	ASTM B 209- 14
Dim. / dim.: [inch]: 0,063x48,00x96,00	AMS 4027N, 07.2008
	Cessna CMMP019, Rev. D, 09-07-01
	Cessna CMMP025, Rev. V, 2-20-15
	Sondervorschrift / special terms:

AB-Pos. ord.-item	BNr/Los/Teillos Lot/No/Part	Guss Nr. cast no.	Werkstoff material	Kollo pack no.	Gewicht netto weight net	Stk. pcs.
06	61011/01/00	01/0072091/5	6061	6933910027	2409,612 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910028	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910029	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910030	2414,021 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910031	2416,226 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910032	2416,226 lbs	85
06	61011/01/00	01/0072091/5	6061	6933910033	1560,847 lbs	55

Chemische Zusammensetzung (%) Gewichtsanteile / Chemical composition (%) weight proportion (OES)											
Guss Nr. / cast no.	material	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
01/0072091/5	6061	0,40	-	0,15	-	0,80	0,04	-	-	-	-
	spec. min.	0,80	0,70	0,40	0,15	1,20	0,35	0,25	0,15	0,05	0,15
	actual	0,68	0,44	0,24	0,12	0,88	0,18	0,06	0,03	0,02	0,03

Zugprüfung LT / tensile test LT							
BNr/Los Lot/No.	Zustand temper	Richtung direction	Tests	UTS [ksi]	YS [ksi]	A2" [%]	
			spec.min.	42,0	35,0	10	
			spec.max.	-	-	-	
61011/01	T6	LT	8	from 48,6	42,4	13	
61011/01	T6	LT		to 49,0	42,9	15	

0670362
0670363
0670364
0670365
0670366
0670367
0670368

Abnahmeprüfzeugnis 3.1 (EN 10204)
Inspection certificate - mill certificate

Nr.: 85150377

01 / 4

Rev.: 0

Seite / page:

2 von / of 2

Datum / date:

2015 11 10

Zertifiziert nach / certified to ISO 9001, ISO/TS 16949, EN/AS 9100, ISO 14001, NADCAP

Sonstige Prüfungen / other tests

Biegeversuch: OK. / Transverse bend test: OK.

Maßkontrolle: OK. / Dimensional Check: OK.

Oberfläche: OK. / Surface inspection: OK.

Bemerkungen / notes

Die Dimensionstoleranzen entsprechen ANSI XXX /
As standard, dimensional tolerances are to ANSI XXX

Ausgestellt nach Airbus Zulassung Nr. 30272.

Wir bestätigen, dass die gesamte Lieferung unter Einhaltung und soweit oben nicht anders dargelegt aller Forderungen (Spezifikationen, Zeichnungen, Aufträge) hergestellt und geprüft wurde.

Das Qualitätsmanagementsystem erfüllt die Anforderungen der AUK/SA/001-3.

Hergestellt, kontrolliert und geprüft nach Hawker Beechcraft HBIFSAS/PART3/0771

Agusta Westland Genehmigung Lieferantennummer V21275

Issued under Airbus Approval No. 30272.

Certified that the whole of the supplies detailed hereon have been manufactured, inspected, tested and unless otherwise stated above conform in all respects to the Specifications, Drawings and Contract.

Order relevant thereto The Quality Management System arrangements in respect of these supplies comply with the requirements of AUK/SA/001-3.

Manufactured, inspected and tested according Hawker Beechcraft HBIFSAS/PART3/0771

Agusta Westland approval supplier code V21275

Es wird bestätigt, dass die Lieferung geprüft wurde und den Vereinbarungen bei der Bestellung entspricht.

We hereby certify that the material described above has been tested and complies with the terms of the order contract.

Werkstattverantwortlicher / factory specialist

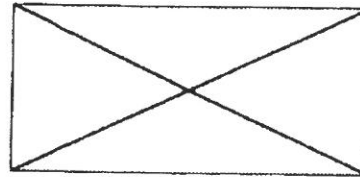
E-Mail / e-mail

Klampfer Josef

josef.klampfer@amag.at

Herstellerland: Österreich / goods origin: The goods are of Austrian origin.

Maschinell erstellt - Gültig ohne Unterschrift / Automated - valid without being signed.



SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 6061-T6 1627T651 ALUMINUM SHEET OR PLATE
SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR 4027
OR ASTM B209

△ PART NUMBER: M6061T6S | XXX | X | W | WWW |
THK | WIDTH |

WHERE "XXX" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)
EG. 0.063" THICK SHEET = M6061T6S.063
EG. 3.5" WIDE BY 0.500" THICK PLATE = M6061T6S.500X3.500
XXX BY 4FT BY 8FT FOR SHEET

△ PREFERRED SIZE:

C	ADD PLATE AND T651 SPEC	ML	17.12.13
B	REFORMAT DWG. ADD B209 SPEC (ZN D6-1); REF PAR 08.020A	CP	09.07.13
A	NEW ISSUE	RF	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	ML	
DRAWN	NO	JFS	
CHECKED	NO	HS	
MFG. APPR.	CP	47	
APPROVED	CP	47	
DE APPR.	CP	47	
DATE	17.12.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6S			
REV. C			
SHEET 1 OF 1			
TITLE 6061-T6 SHEET/PLATE SPEC			
SCALE NTS			
DATE 17.12.13			
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THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED ONLY FOR THE PURPOSES SPECIFIED HEREIN. IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.			

APPROVED
2018 MAR 13 47
2018 18-505

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6S.063

PO / BATCH NO.: P0040616/S101044

DATE: 18/08/10

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.063"

QUANTITY RECEIVED: 965t

THICKNESS RECEIVED: 0.063"

QUANTITY INSPECTED: 965t

SHEET SIZE ORDERED: 4'x8'

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: 4'x8'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	N	
CORROSION	Y	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/>	N	ASTM B209
CORRECT THICKNESS	<input checked="" type="checkbox"/>	N	
PHOTO REQUIRED	Y	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/>	N	HT: 6/21/01/00
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/>	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/08/10</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

HENAN WINOW IMPORT & EXPORT CO., LTD

OFFICE ADD: NO. 1407, BUILDING YUNFENG, SOUTH DONGFENG ROAD, ZHENGZHOU NEW DISTRICT.
ZHENGZHOU CITY, HENAN PROVINCE, 450001 P.R. CHINA

TEST CERTIFICATE

INVOICE NO.: WMS180111-1

PO NO.: 2211 2222 2233

DATE: 19-Mar-18

DATE: 19-Mar-18

Description of goods	ALUMINUM SHEETS	Alloy and Temper	3003H14/H22 5052								
Technique Standard	ASTM B209/B632/AMS 4016 QQA 250/2 and AMS 4008 AMS QQ-A-250/8 and QQA 250/2	Chemical Composition Standard	H32 ASTM B209/B632/AMS 4016 QQA 250/2 and AMS 4008 AMS QQ-A-250/8 and QQA 250/2								
Chemical Composition											
Lot No.	Alloy & Temper	Dimension	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
G-18010428	3003H22	0.188"x60"x120" (4.775x1524x3048mm)	0.102	0.465	0.087	1.1	0.006	0.004	0.008	0.018	R
G-18010428	3003H22	0.188"x60"x144" (4.775x1524x3657mm)	0.102	0.465	0.087	1.1	0.006	0.004	0.008	0.018	R
G-18010420	3003H14	0.25"x60"x120" (6.35x1524x3048mm)	0.07	0.411	0.065	1.18	0.002	0.018	0.009	0.029	R
1802008	3003H14	0.1"x48"x96" (2.54x1219x2438mm)	0.058	0.413	0.071	1.16	0.024	0.02	0.009	0.022	R
G-18020681	5052H32	0.032"x48"x96" (0.813x1219x2438mm)	0.074	0.25	0.013	0.088	2.3	0.19	0.002	0.022	R
G-18020681	5052H32	0.032"x48"x120" (0.813x1219x3048mm)	0.074	0.25	0.012	0.087	2.29	0.19	0.002	0.022	R
G-18020433	5052H32	0.050"x60"x120" (1.27x1524x3048mm)	0.077	0.26	0.021	0.088	2.31	0.18	0.001	0.021	R
G-18010944	5052H32	0.080"x48"x120" (2.032x1219x3048mm)	0.071	0.25	0.019	0.093	2.31	0.17	0.002	0.031	R
G-18010944	5052H32	0.09"x48"x96" (2.286x1219x2438mm)	0.071	0.25	0.019	0.093	2.31	0.17	0.002	0.031	R
G-18010919	5052H32	0.125"x60"x96" (3.175x1524x2438mm)	0.077	0.26	0.026	0.088	2.33	0.18	0.001	0.019	R
G-18010919	5052H32	0.125"x60"x120" (3.175x1524x3048mm)	0.077	0.26	0.026	0.088	2.33	0.18	0.001	0.019	R
G-18010865	5052H32	0.125"x60"x120" (3.175x1524x3048mm)	0.081	0.27	0.031	0.087	2.35	0.17	0.002	0.02	R
G-18010919	5052H32	0.125"x60"x144" (3.175x1524x3657mm)	0.077	0.26	0.026	0.088	2.33	0.18	0.001	0.019	R
G-18020177	5052H32	0.188"x48"x96" (4.775x1219x2438mm)	0.091	0.31	0.035	0.089	2.29	0.19	0.001	0.021	R
G-18020177	5052H32	0.188"x48"x120" (4.775x1219x3048mm)	0.091	0.31	0.035	0.089	2.29	0.19	0.001	0.021	R

G-18020177	5052H32	0.188"x48"x144" (4.775x1219x3657mm)	0.091	0.31	0.035	0.089	2.29	0.19	0.001	0.021	R
G18010943	5052H32	0.25"x48"x120" (6.35x1219x3048mm)	0.081	0.23	0.015	0.078	2.33	0.18	0.001	0.018	R
G-18010943	5052H32	0.25"x48"x144" (6.35x1219x3657mm)	0.071	0.26	0.025	0.085	2.31	0.17	0.003	0.02	R

Mechanical Property

Lot No.	Alloy & Temper	Dimension	Tensile Strength(MPa)	Yield Strength(Mpa)	Elongation(%)
G-18010428	3003H22	0.188"x60"x120" (4.775x1524x3048mm)	145	/	16
G-18010428	3003H22	0.188"x60"x144" (4.775x1524x3657mm)	145	/	16
G-18010420	3003H14	0.25"x60"x120" (6.35x1524x3048mm)	178	/	17
1802008	3003H14	0.1"x48"x96" (2.54x1219x2438mm)	175	/	18
G-18020681	5052H32	0.032"x48"x96" (0.813x1219x2438mm)	248	204	7
G-18020681	5052H32	0.032"x48"x120" (0.813x1219x3048mm)	248	204	7
G-18020433	5052H32	0.050"x60"x120" (1.27x1524x3048mm)	225	176	16
G-18010944	5052H32	0.080"x48"x120" (2.032x1219x3048mm)	222	172	13
G-18010944	5052H32	0.09"x48"x96" (2.286x1219x2438mm)	222	172	13
G-18010919	5052H32	0.125"x60"x96" (3.175x1524x2438mm)	226	165	18
G-18010919	5052H32	0.125"x60"x120" (3.175x1524x3048mm)	226	165	18
G-18010865	5052H32	0.125"x60"x120" (3.175x1524x3048mm)	225	166	14
G-18010919	5052H32	0.125"x60"x144" (3.175x1524x3657mm)	226	165	18
G-18020177	5052H32	0.188"x48"x96" (4.775x1219x2438mm)	210	183	15
G-18020177	5052H32	0.188"x48"x120" (4.775x1219x3048mm)	210	183	15
G-18020177	5052H32	0.188"x48"x144" (4.775x1219x3657mm)	210	183	15
G18010943	5052H32	0.25"x48"x120" (6.35x1219x3048mm)	216	188	17
G-18010943	5052H32	0.25"x48"x144" (6.35x1219x3657mm)	216	188	17

HENAN WINOW IMPORT & EXPORT CO., LTD

HENAN WINOW IMPORT & EXPORT CO., LTD

Sally

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 5052-H32 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/B OR AMS-QQ-A-250/B
OR AMS 4046
OR ASTM B209

PART NUMBER: M5052H32S | XXX | THK

WHERE "XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M5052H32.063

PREFERRED SIZE: XXX BY 4FT BY 8FT

RELEASED
R 2009-10-30
AWP

B	REFORMAT DWG. ADD B209 SPEC (ZN DR-1), PAR 08-020A	CP	09.09.26
A	NEW ISSUE	DS	01.06.08
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.09.26		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M5052H32S			
SHEET 1 OF 1			
TITLE 5052-H32 SHEET SPEC			
SCALE NTS			
DATE 09.09.26			
COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DOCUMENT IS UNCLASSIFIED NET TISSUE FOR USE IN AIRCRAFT ASSEMBLY			

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M5052H32S.032

PO / BATCH NO.: P0040616/5101050

DATE: 18/08/10

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.032"

QUANTITY RECEIVED: 645F

THICKNESS RECEIVED: 0.032"

QUANTITY INSPECTED: 645F

SHEET SIZE ORDERED: 4'x8'

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: 4'x8'

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	<u>ASTM B209</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>MT: G-18020681</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/08/10</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

2 août 2018

Part Number/Description		Shipped Qty
MST15000		2,153 Pounds
Plate 1-1/2 4140/42 Prehard		
34.06250 x 146.18750 ASTM A-829 → Structural Steel Plate DFARS Compliant Country of Origin: SLOVENIA Lot: 427218A		PM Heat: 95008 BHN: 307 = HRC ≈ 32
C: 0.4100	Mn: 0.7760	P: 0.0090
Cr: 0.9800	Mo: 0.1500	S: 0.0010
		Si: 0.2230
		Ni: 0.1200
		V: 0.0420
		Cu: 0.2210

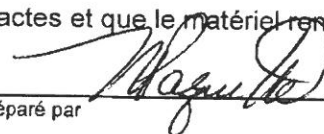
ITEM 5: 1 X 4" X 72"

COMMANDE: 137136

REF: 40616

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.

Préparé par



8 7 6 5 4 3 2 1

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	18-544	18.2.13	VM	ML

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE
MINIMUM ROCKWELL C = 28 Rc
MAXIMUM ROCKWELL C = 32 Rc

SPECIFICATION: ASTM A829, AMS 6395

PART NUMBER: MT-4140-S-(T.TTT) x (W.WWW)
WHERE "T.TTT" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500



TITLE		PART NO.		REV.	
AISI 4140 / 4142 STEEL SHEET OR PLATE		MT-4140-S		A	
DIMENSIONS ARE IN INCHES DIMENSIONS APPLY AFTER FINISHING					
DESIGNED BY:	VM 2/13/2018	TO: FRANCE	FRACTIONS 1 1/8		
CHECKED BY:	VM 02/13/2018	XXX 1 085	ANGLES 1 1/2		
APPROVED BY:	ML 02/13/2018	XXX 1 085	SURFACE 1.2		
APPROVED BY:		ML 02/13/2018	SCALE: NTS		SHEET 1 OF 1
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Note

8 7 6 5 4 3 2 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-5-1.500x4.000
 DATE: 18/08/17

PO / BATCH NO.: P0040616/S101052

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 644
 QUANTITY INSPECTED: 644
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500"
 THICKNESS RECEIVED: 1.500"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	N	
CORROSION	Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	N	<u>ASTM A829</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y	N	
PHOTO REQUIRED	Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	N	<u>MT: 95008</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/08/17</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in